

## REPORT ON MACHINERY.

No. 19284

Port of Hull

Received at London WED. 14 AUG 1907

No. in Survey held at Selby & Hull Date, first Survey Dec 17/06 Last Survey July 29<sup>th</sup> 1907  
 Reg. Book. 361 on the Screw Trawler "Marcelle" (Number of Visits 28)  
 Master                      Built at Selby By whom built Cochrane Bros When built 1907  
 Engines made at Hull By whom made Charles B. Holmes & Co when made 1907  
 Boilers made at do By whom made do when made 1907  
 Registered Horse Power                      Owners Societe Anonyme des Pichons & Vapour Port belonging to Ostend  
 Nom. Horse Power as per Section 28 74 Is Refrigerating Machinery fitted for cargo purposes Yes Is Electric Light fitted No

ENGINES, &c.—Description of Engines Triple No. of Cylinders 3 No. of Cranks 3  
 Dia. of Cylinders 12½", 22", 35" Length of Stroke 24" Revs. per minute 112 Dia. of Screw shaft as per rule 7.29 Material of screw shaft Iron  
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight  
 in the propeller boss yes If the liner is in more than one length are the joints burned yes If the liner does not fit tightly at the part  
 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓ If two  
 liners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 3'-0"  
 Dia. of Tunnel shaft as per rule 6.6" Dia. of Crank shaft journals as per rule 6.9" Dia. of Crank pin 7½" Size of Crank webs 13½" x 4½" Dia. of thrust shaft under  
 collars 7½" Dia. of screw 8'-7½" Pitch of Screw 11'-0" No. of Blades 4 State whether moveable No Total surface 29 sq. ft.  
 No. of Feed pumps 1 Diameter of ditto 2⅜" Stroke 14¼" Can one be overhauled while the other is at work ✓ E 13.11.06  
 No. of Bilge pumps 1 Diameter of ditto 2⅜" Stroke 14¼" Can one be overhauled while the other is at work ✓  
 No. of Donkey Engines One Sizes of Pumps 2¾" + 5" No. and size of Suctions connected to both Bilge and Donkey pumps  
 In Engine Room Two 2" dia. In Holds, &c. Four 2" dia.  
Ejector suction from all bilges & discharge on deck.  
 No. of Bilge Injections 1 sizes 3" Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size 2½" ejector  
 Are all the bilge suction pipes fitted with roses yes Are the roses in Engine room always accessible yes Are the sluices on Engine room bulkheads always accessible None  
 Are all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks Both  
 Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes Are the Discharge Pipes above or below the deep water line Above  
 Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes Are the Blow Off Cocks fitted with a spigot and brass covering plate yes  
 What pipes are carried through the bunkers Hold suction How are they protected Wood casing  
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes  
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes  
 Dates of examination of completion of fitting of Sea Connections 1.3.07 of Stern Tube 1.3.07 Screw shaft and Propeller 1.3.07  
 Is the Screw Shaft Tunnel watertight None Is it fitted with a watertight door ✓ worked from ✓

BOILERS, &c.—(Letter for record (S) Manufacturers of Steel David Colville & Sons)  
 Total Heating Surface of Boilers 1210 sq. ft. Forced Draft fitted No No. and Description of Boilers One J.E. Lyle & Mather  
 Working Pressure 200 lbs Tested by hydraulic pressure to 400 lbs Date of test 28.6.07 No. of Certificate 1570  
 Can each boiler be worked separately ✓ Area of fire grate in each boiler 33 ft No. and Description of Safety Valves to  
 each boiler Two spring Area of each valve 3.97 Pressure to which they are adjusted 205 lbs Are they fitted with easing gear yes  
 Smallest distance between boilers or uptakes and bunkers or woodwork 7" Mean dia. of boilers 12'-6" Length 10'-0" Material of shell plates Steel  
 Thickness 1½" Range of tensile strength 28½-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams BR Lap  
 long. seams BR 55 Rivet Diameter of rivet holes in long. seams 1½" Pitch of rivets 7½" Lap of plates or width of butt straps 17½"  
 Per centages of strength of longitudinal joint 87.5 Working pressure of shell by rules 203 lbs Size of manhole in shell 16" x 12"  
 Size of compensating ring 7" x 1½" No. and Description of Furnaces in each boiler Two Holmes Material Steel Outside diameter 3'-7"  
 Length of plain part top 23" Thickness of plates bottom 23" Description of longitudinal joint Welded No. of strengthening rings 23"  
 Working pressure of furnace by the rules 209 Combustion chamber plates: Material Steel Thickness: Sides 29/32" Back 17/16" Top 23/32" Bottom 23/32"  
 Pitch of stays to ditto: Sides 9" x 9" Back 9¼" x 8½" Top 9" x 8½" If stays are fitted with nuts or riveted heads Nuts Working pressure by rules 200 lbs  
 Material of stays Steel Diameter at smallest part 1½" Area supported by each stay 82" Working pressure by rules 227 End plates in steam space:  
 Material Steel Thickness 1½" Pitch of stays 17" x 17" How are stays secured on + w Working pressure by rules 208 lbs Material of stays Steel  
 Diameter at smallest part 7" Area supported by each stay 289" Working pressure by rules 242 Material of Front plates at bottom Steel  
 Thickness 15/16" Material of Lower back plate Steel Thickness 15/16" Greatest pitch of stays 14" Working pressure of plate by rules 200  
 Diameter of tubes 3¼" Pitch of tubes 4¼" x 4½" Material of tube plates Steel Thickness: Front 15/16" Back 29/32" Mean pitch of stays 9⅜"  
 Pitch across wide water spaces 14½" Working pressures by rules 200 lbs Girders to Chamber tops: Material Steel Depth and  
 thickness of girder at centre 9½" x 1¼" Length as per rule 2'-8½" Distance apart 8½" Number and pitch of stays in each 309"  
 Working pressure by rules 230 Superheater or Steam chest; how connected to boiler None Can the superheater be shut off and the boiler worked  
 separately ✓ Diameter ✓ Length ✓ Thickness of shell plates ✓ Material ✓ Description of longitudinal joint ✓ Diam. of rivet  
 holes ✓ Pitch of rivets ✓ Working pressure of shell by rules ✓ Diameter of flue ✓ Material of flue plates ✓ Thickness ✓  
 If stiffened with rings ✓ Distance between rings ✓ Working pressure by rules ✓ End plates: Thickness ✓ How stayed ✓  
 Working pressure of end plates ✓ Area of safety valves to superheater ✓ Are they fitted with easing gear ✓

VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description				
Made at	By whom made	When made	Where fixed		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
If fitted with easing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler	Length		
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Stayed by			
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:— Two top + two bottom- end connecting rod bolts + nuts. Two main bearing bolts + nuts. One set of coupling bolts + nuts. One set of feed + bilge pump valves. Main + donkey feed check valves. Assorted bolts + nuts &c.

The foregoing is a correct description,

PER PRO CHARLES D. HOLMES & Co.

A. Allon

Manufacturer.

Dates of Survey while building: During progress of work in shops— 1906—Dec 17. 1907—Jan 15. 30. Feb 19. 28. Mar 15. 20. 26. Apr 10. 13. 26. May 7. 10. 22. 30. Jun 6.  
During erection on board vessel— Jan 14. 24. 27. 28. July 8. 9. 16. 19. 22. 25. 29.  
Total No. of visits 28

Is the approved plan of main boiler forwarded herewith ☒ yes

" " " donkey " " ☒ yes

Dates of Examination of principal parts—Cylinders 27.6.07 Slides 9.7.07 Covers 9.7.07 Pistons 8.7.07 Rods 27.6.07  
Connecting rods 27.6.07 Crank shaft 8.7.07 Thrust shaft 8.7.07 Tunnel shafts ✓ Screw shaft 19.2.07 Propeller 19.2.07  
Stern tube 19.2.07 Steam pipes tested 22.7.07 Engine and boiler seatings 1.3.07 Engines holding down bolts 16.7.07  
Completion of pumping arrangements 25.7.07 Boilers fixed 19.7.07 Engines tried under steam 25.7.07  
Main boiler safety valves adjusted 25.7.07 Thickness of adjusting washers  $F\frac{1}{4}" A\frac{1}{4}"$   
Material of Crank shaft Iron Identification Mark on Do. 8.7.07 Material of Thrust shaft Iron Identification Mark on Do. 8.7.07  
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Iron Identification Marks on Do. 19.2.07  
Material of Steam Pipes Solid drawn copper Test pressure 400 lbs

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Engines and Boiler of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been fitted and secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of + LMC 7.07 in the Register Book.

Note:— The fish hold of this vessel has been insulated with cork and has a capacity of 6100 cub. ft.

The Refrigerating Machinery consists of one single ammonia compression machine with direct ammonia expansion in the hold, made by Phoenix Co., Ghent.

It is submitted that this vessel is eligible for THE RECORD + L.M.C. 7.07.

The amount of Entry Fee. £ 1 : - :  
Special .. .. £ 11 : 2 :  
Donkey Boiler Fee .. .. £ - : - :  
Travelling Expenses (if any) £ - : 8 : 2

When applied for,

When received,

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute FRM. 16 AUG 1907

Assigned

MACHINERY CERTIFICATE WRITTEN.



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